

of Beirut
AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

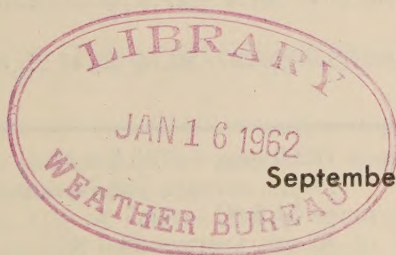
FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : $33^{\circ} 54' 22''$ N.

Longitude : $2^{\text{h}} 21^{\text{m}} 52^{\text{s}}$. 7 E.



September - 1961

SEPTEMBER 1961
METEOROLOGICAL REGISTER

Date	Barometer reduced to 0°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8 30	14:30	20:30	Mean
1	56.8	56.8	57.1	56.9	31.4	24.1	26.7	30.3	26.0	27.7
2	57.1	56.6	56.8	56.8	30.9	23.8	27.3	30.0	25.4	27.6
3	56.9	56.5	57.6	57.0	30.3	23.3	27.0	29.0	25.0	27.0
4	58.1	57.8	58.4	58.1	31.4	23.0	26.4	29.1	24.7	26.7
5	58.5	58.2	58.6	58.4	29.9	23.6	26.3	28.7	25.2	26.7
6	59.1	58.8	58.6	58.8	29.9	23.4	26.0	29.2	25.8	27.0
7	58.8	57.8	57.8	58.1	30.7	23.2	26.6	29.4	25.2	27.1
8	57.9	57.0	57.3	57.4	31.5	23.0	26.0	30.0	25.4	27.1
9	57.3	56.6	56.4	56.8	31.4	23.2	26.4	30.5	25.8	27.6
10	56.2	55.1	55.5	55.6	31.4	23.1	26.7	30.5	25.9	27.7
11	54.7	53.0	54.1	53.9	30.9	24.2	26.5	30.2	26.5	27.7
12	55.9	56.3	57.4	56.5	30.4	21.8	25.2	29.7	24.8	26.6
13	58.8	59.0	60.4	59.4	29.3	23.2	25.0	28.5	24.5	26.0
14	61.4	60.0	59.3	60.2	28.1	23.6	25.7	27.5	26.0	26.4
15	59.1	57.8	57.7	58.2	29.0	22.4	25.8	28.2	24.7	26.2
16	57.3	56.1	56.1	56.5	30.5	22.2	25.2	29.5	24.7	26.5
17	56.0	55.2	55.8	55.7	30.2	19.7	26.0	29.2	25.0	26.7
18	56.3	56.4	57.8	56.8	29.5	22.2	22.8	26.0	24.8	24.5
19	59.2	58.7	59.2	59.0	29.8	23.0	25.2	29.4	24.5	26.4
20	59.0	57.8	57.7	58.2	29.6	22.9	25.2	29.0	25.0	26.4
21	56.8	56.3	57.2	56.8	29.5	21.9	24.8	28.7	23.9	25.8
22	56.9	56.2	56.1	56.4	29.6	22.1	25.0	28.7	24.0	25.9
23	55.7	55.1	56.5	55.8	28.9	22.1	25.5	26.5	24.4	25.5
24	58.0	58.4	60.6	59.0	28.7	22.2	25.3	27.0	23.9	25.4
25	61.9	61.9	62.0	61.9	27.0	20.9	24.1	25.7	23.8	24.5
26	61.7	60.4	59.4	60.5	25.9	20.5	23.0	25.0	22.5	23.5
27	58.9	58.0	58.6	58.5	27.1	21.2	23.2	26.6	22.5	24.1
28	59.4	59.3	60.5	59.7	27.7	22.5	23.6	36.3	24.0	24.6
29	61.1	60.9	61.4	61.1	27.3	20.9	24.1	26.7	23.7	24.8
30	61.9	60.5	60.6	61.0	27.3	20.9	23.8	36.8	23.4	24.7
31										
	58.22	57.62	58.08	57.97	29.50	22.47	25.34	28.40	24.70	26.15

Barometer, range 762.0 mm — 753.0 mm

» 71-yrs. average 758.74 mm.

Thermometer, range 31.5 °C — 19.7 °C

« 82-yrs. average 26.4 °C

Rain. total for month 7.15 mm

« 82-yrs. average for month 6.7 mm

« total from Sept. 1st. 7.15 mm

« 82-yrs. average from Sept. 1st. 6.65mm

SEPTEMBER 1961
METEOROLOGICAL REGISTER

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m m
1	20.9	27.2	24.4	24.2	60	56	73	63	9.7	159	
2	23.4	23.5	22.2	23.0	64	55	68	62	10.4	111	
3	19.9	20.8	19.4	20.0	56	52	62	57	9.6	116	
4	20.5	16.0	15.2	17.2	59	40	50	50	9.8	129	
5	19.8	22.2	21.5	21.2	58	57	67	61	9.8	134	
6	18.5	23.1	23.4	21.7	55	57	71	61	10.0	101	
7	22.7	22.4	21.5	22.2	66	54	67	62	10.0	100	
8	22.8	26.1	25.2	24.7	67	61	78	69	9.8	124	
9	25.4	25.9	25.4	25.6	73	59	78	70	9.7	169	
10	26.5	27.0	24.5	26.0	76	61	73	70	9.5	212	
11	21.6	26.5	25.0	24.4	62	61	72	65	9.5	312	
12	19.8	21.0	19.1	20.0	62	51	62	58	9.5	272	0.10
13	17.6	22.8	20.8	20.4	55	58	68	60	9.4	111	2.50
14	21.7	20.7	24.5	22.3	66	56	73	65	9.7	262	
15	21.5	22.9	19.9	21.4	65	60	64	63	9.8	154	
16	21.0	23.1	20.7	21.6	65	55	67	62	9.4	108	
17	20.8	23.1	21.2	21.7	62	57	67	62	9.4	122	
18	20.8	18.5	16.2	18.5	75	55	52	61	9.3	179	1.70
19	17.9	21.4	21.0	20.1	55	52	69	59	9.5	66	
20	23.9	21.7	21.6	22.4	75	54	68	66	8.9	105	
21	18.6	18.5	19.2	18.8	60	47	65	57	8.6	167	0.15
22	20.3	22.7	21.0	21.3	64	58	71	64	9.1	142	
23	19.6	19.7	20.3	19.9	60	56	66	61	7.5	249	
24	19.1	19.9	19.4	19.5	59	56	66	60	8.2	211	2.70
25	17.6	15.1	17.3	16.7	59	45	59	54	9.0	203	
26	14.6	15.0	16.3	15.3	52	48	59	53	9.6	190	
27	15.3	15.4	16.4	15.7	53	45	60	53	9.5	121	
28	15.8	17.6	19.1	17.5	54	51	64	56	9.3	130	
29	18.1	18.2	18.3	18.2	61	53	63	59	8.5	103	
30	15.2	17.1	17.4	16.6	52	51	60	54	9.6	140	
31											
	20.04	21.17	20.58	20.60	61.7	54.3	66.1	60.6	9.39	156.73	0.24

Height of Barometer above sea level : 33.7 meters.

Height of Thermometers above ground :

Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.

Hygrometric data from reading of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.

Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.

Rainfall is read at 20.30 for the preceding 24 hours.

71 year averages are for period, 1875 - 1943

SEPTEMBER 1961

METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	4cu-st	3cu-st	2cu-st	3.0	3sw	3sw	2sw	light	
2	3cu-st	3cu-st	0	2.0	4sw	3w	0	slight	
3	1st-cu	0	0	0.3	2w	2nw	0	light	
4	1cu	0	0	0.3	2w	3w	1w	"	
5	0	0	0	0.0	3w	3ne	0	"	
6	0	0	0	0.0	2ne	3ne	2ne	light	
7	0	0	0	0.0	3sw	3n	0	"	
8	0	2cu-st	0	0.7	4sw	4w	2sw	"	D; p.m.
9	1cu-st	1st	0	0.7	3sw	3sw	1sw	"	D; p.m.
10	2cu-st	3cu-st	0	1.7	4sw	3w	3sw	"	H; a.m.
11	4st	4cu-st	5cu-st	4.3	4sw	5sw	6sw	light	
12	8cu-st	3cu-st	5cu-ni	5.3	4sw	4w	3w	"	
13	0	4cu-st	0	1.3	3sw	3w	1w	"	
14	0	0	0	0.0	4ne	5ne	5ne	"	
15	0	0	0	0.0	3ne	4ne	1ne	"	
16	0	2cu-st	7cu-st	3.0	4sw	3sw	2sw	light	
17	2st-cu	3cu-st	7cu-st	4.0	4sw	4sw	4sw	"	
18	0	1cu-st	0	0.3	3sw	4ne	5ne	"	
19	0	1cu	0	0.3	2sw	4w	1w	"	
20	3cu-st	8cu-st	9cu-st	6.7	3sw	4w	3w	"	
21	5cu-st	2cu	3cu-st	3.3	4sw	4sw	3sw	light	
22	0	6cu-st	0	2.0	4sw	4sw	2sw	"	
23	5cu-st	9cu-st	10cu-st	8.0	4sw	6sw	4sw	"	
24	5cu-st	3cu-st	4cu	4.0	4sw	4w	0	"	Tr; p.m.
25	7cu-st	0	4cu	3.7	3ne	4n	4ne	"	
26	0	0	0	0.0	3e	4nw	0	light	
27	0	0	9cu-st	3.0	2e	4nw	2ne	"	
28	2cu	3cu	8cu-st	4.3	1e	3w	0	"	
29	5cu-st	5cu-st	5cu-st	5.0	3ne	3nw	3ne	"	
30	0	0	0	0.0	2e	2n	3ne	"	
31									
				2.24					

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D = dew
W = strong wind ; Tr = trace of rain

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	5	4	0	0	18	3	0	0	30
14:30	3	5	0	0	0	8	10	4	0	30
20:30	0	8	0	0	0	10	5	0	7	30
Total	3	18	4	0	0	36	18	4	7	90

Number of days with rain 5, fog 0, Thunderstorms 0, gale 0
71-yrs. average number of days with rain during month 1.13